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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/814,375	03/30/2004	Valery M. Dubin	110348-135102	5497	
31817	7590 04/20/2006		EXAM	EXAMINER	
	E, WILLIAMSON & W	CRANE, SARA W			
PACWEST CENTER, SUITE 1900 1211 S.W. FIFTH AVE. PORTLAND, OR 97204		•,	ART UNIT	PAPER NUMBER	
			2811		
			DATE MAILED: 04/20/2006	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)						
Office Action Summary		10/814,375	DUBIN, VALERY	M.	m				
		Examiner	Art Unit						
	•	Sara W. Crane	2811						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address									
Period fo	• •		o` oo =!!!o=://						
WHIC - Exter after - If NO - Failu Any (ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period or reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	I. sely filed the mailing date of this of 0 (35 U.S.C. § 133).						
Status									
1)⊠	Responsive to communication(s) filed on 03 Fe	ebruary 200 <u>6</u> .		•					
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.								
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.						
Dispositi	ion of Claims								
4)⊠	Claim(s) 1-30 is/are pending in the application.								
	4a) Of the above claim(s) <u>20-30</u> is/are withdrawn from consideration.								
	5) Claim(s) is/are allowed.								
6)⊠	6)⊠ Claim(s) <u>1-19</u> is/are rejected.								
•	Claim(s) is/are objected to.								
8)□	Claim(s) are subject to restriction and/o	r election requirement.							
Applicati	ion Papers								
9)	The specification is objected to by the Examine	er.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex).				
Priority (under 35 U.S.C. § 119								
12) 🔲	Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).						
1. ☐ Certified copies of the priority documents have been received.									
	2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage									
	application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.									
		•							
				•					
Attachmer	nt(s)								
1) Notic	ce of References Cited (PTO-892)	4) Interview Summary							
	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail D 5) Notice of Informal F		ΓO-152)					
	er No(s)/Mail Date <u>15 November 2004</u> .	6) Other:	,						

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DETAILED ACTION

Election/Restriction's

Applicant has elected to prosecute without traverse the invention of claims 1-19, in the response of 3 February 2006. The requirement for election of species in the Office action of 3 January 2006 is withdrawn.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In the independent claim, claim 1, it is not clear to the examiner what is meant by "a solution containing carbon nanotubes." A solution is understood to mean a solvent, and something dissolved in the solvent. Is the claim describing a solvent, plus something dissolved in the solvent (plating chemicals, for example), *plus* carbon nanotubes? Or is the claim describing simply a solvent plus the carbon nanotubes?

Some confusion arises because materials which are dissolved to form a solution are usually understood to lose their physical structure. Applicant's specification describes the carbon nanotubes as being "suspended in solvents" (page 7, lines 4-6), so the nanotubes apparently are not meant to lose their physical structure within the solution. But line 7 of page 7 describes making carbon nanotubes soluble. Are such

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"soluble" nanotubes actually dissolved in a solvent? Or are they suspended, or mixed, in the solvent, perhaps by analogy to a colloidal particle, where the physical structure of the nanotube is maintained?

Does the word "solution" in claim 1 mean that something (other than the nanotubes, presumably) is physically dissolved in solvent? Or is the claim using the term "solution" to refer to a suspension, or "mixture," of carbon nanotubes in solvent?

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Crane, whose telephone number is (571) 272-1652.

The supervisor for Art Unit 2811, Eddie Lee can be reached on (571) 272-1732. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sara W. Crane Primary Examiner

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